

NEWS 15 JAN 29 CAS Registry Number crossover limit increased to 300,000 in multiple databases
 NEWS 16 FEB 15 PATDPASPC enhanced with Drug Approval numbers
 NEWS 17 FEB 15 RUSSIAPAT enhanced with pre-1994 records
 NEWS 18 FEB 23 KOREAPAT enhanced with IPC 8 features and functionality
 NEWS 19 FEB 26 MEDLINE reloaded with enhancements
 NEWS 20 FEB 26 EMBASE enhanced with Clinical Trial Number field
 NEWS 21 FEB 26 TOXCENTER enhanced with reloaded MEDLINE
 NEWS 22 FEB 26 IFICDB/IFIPAT/IFIUDB reloaded with enhancements
 NEWS 23 FEB 26 CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
 NEWS 24 MAR 15 WPIDS/WPIX enhanced with new FRAGHITSTR display format
 NEWS 25 MAR 16 CASREACT coverage extended
 NEWS 26 MAR 20 MARPAT now updated daily

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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 NEWS X25 X.25 communication option no longer available

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FILE 'HOME' ENTERED AT 12:15:32 ON 21 MAR 2007

=> file reg

---Logging off of STN---

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
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STRUCTURE FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8
 DICTIONARY FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Executing the logoff script...

=> LOG Y

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	DEC 18	CA/CAPplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS	4	DEC 18	CA/CAPplus patent kind codes updated
NEWS	5	DEC 18	MARPAT to CA/CAPplus accession number crossover limit increased to 50,000
NEWS	6	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS	7	DEC 27	CA/CAPplus enhanced with more pre-1907 records
NEWS	8	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS	9	JAN 16	CA/CAPplus Company Name Thesaurus enhanced and reloaded
NEWS	10	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS	11	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS	12	JAN 22	CA/CAPplus updated with revised CAS roles
NEWS	13	JAN 22	CA/CAPplus enhanced with patent applications from India
NEWS	14	JAN 29	PHAR reloaded with new search and display fields
NEWS	15	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS	16	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS	17	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS	18	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS	19	FEB 26	MEDLINE reloaded with enhancements
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NEWS	21	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS	22	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS	23	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
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FILE 'HOME' ENTERED AT 12:16:16 ON 21 MAR 2007

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

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<http://www.cas.org/ONLINE/UG/regprops.html>

```
=> s KAKAGAGSATLSMAYAGARFVFSLV DAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKNLGIGKVSS
    /SQSP
L1      25 KAKAGAGSATLSMAYAGARFVFSLV DAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKN
        LGIGKVSS                      /SQSP
```

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	29.80	30.01

FILE 'CAPLUS' ENTERED AT 12:16:48 ON 21 MAR 2007
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FILE COVERS 1907 - 21 Mar 2007 VOL 146 ISS 13
FILE LAST UPDATED: 20 Mar 2007 (20070320/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l1

L2 20 L1

=> s l2 not py>2002

5053689 PY>2002

L3 2 L2 NOT PY>2002

=> d ibib kwic 1-2

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:18945 CAPLUS

DOCUMENT NUMBER: 138:67676

TITLE: Generation and initial analysis of more than 15,000
full-length human and mouse cDNA sequences

AUTHOR(S): Strausberg, Robert L.; Feingold, Elise A.; Grouse,
Lynette H.; Derge, Jeffery G.; Klausner, Richard D.;
Collins, Francis S.; Wagner, Lukas; Shenmen, Carolyn
M.; Schuler, Gregory D.; Altschul, Stephen F.;
Zeeberg, Barry; Buetow, Kenneth H.; Schaefer, Carl F.;
Bhat, Narayan K.; Hopkins, Ralph F.; Jordan, Heather;
Moore, Troy; Max, Steve I.; Wang, Jun; Hsieh,
Florence; Diatchenko, Luda; Marusina, Kate; Farmer,
Andrew A.; Rubin, Gerald M.; Hong, Ling; Stapleton,
Mark; Soares, M. Bento; Bonaldo, Maria F.; Casavant,
Tom L.; Scheetz, Todd E.; Brownstein, Michael J.;
Usdin, Ted B.; Toshiyuki, Shiraki; Carninci, Piero;
Prange, Christa; Raha, Sam S.; Loquellano, Naomi A.;
Peters, Garrick J.; Abramson, Rick D.; Mullahy, Sara
J.; Bosak, Stephanie A.; McEwan, Paul J.; McKernan,
Kevin J.; Malek, Joel A.; Gunaratne, Preethi H.;
Richards, Stephen; Worley, Kim C.; Hale, Sarah;
Garcia, Angela M.; Gay, Laura J.; Hulyk, Stephen W.;
Villalon, Debbie K.; Muzny, Donna M.; Sodergren, Erica
J.; Lu, Xiuhua; Gibbs, Richard A.; Fahey, Jessica;
Helton, Erin; Kettelman, Mark; Madan, Anuradha;
Rodrigues, Stephanie; Sanchez, Amy; Whiting, Michelle;
Madan, Anup; Young, Alice C.; Shevchenko, Yuriy;
Bouffard, Gerard G.; Blakesley, Robert W.; Touchman,
Jeffrey W.; Green, Eric D.; Dickson, Mark C.;
Rodriguez, Alex C.; Grimwood, Jane; Schmutz, Jeremy;
Myers, Richard M.; Butterfield, Yaron S. N.;
Krzywinski, Martin I.; Skalska, Ursula; Smailus, Duane
E.; Schnerch, Angelique; Schein, Jacqueline E.; Jones,
Steven J. M.; Marra, Marco A.

CORPORATE SOURCE: National Cancer Institute, NIH, Bethesda, MD,
20892-2580, USA

SOURCE: Proceedings of the National Academy of Sciences of the
United States of America (2002), 99(26), 16899-16903
CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER: National Academy of Sciences

DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT	480737-29-9	480737-30-2	480737-31-3	480737-32-4	480737-33-5
	480737-34-6	480737-35-7	480737-36-8	480737-38-0	480737-39-1
	480737-40-4	480737-41-5	480737-42-6	480737-43-7	480737-44-8
	480737-46-0	480737-47-1	480737-48-2	480737-49-3	480737-50-6
	480737-51-7	480737-52-8	480737-53-9	480737-54-0	480737-55-1
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	480737-62-0	480737-63-1	480737-64-2	480737-65-3	480737-66-4
	480737-67-5	480737-68-6	480737-69-7	480737-71-1	480737-72-2
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	480739-03-5	480739-04-6	480739-05-7	480739-06-8	480739-07-9
	480739-08-0	480739-09-1	480739-10-4	480739-11-5	480739-12-6
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	480739-39-7	480739-40-0	480739-41-1	480739-42-2	480739-43-3
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	480739-55-7	480739-56-8	480739-57-9	480739-59-1	480739-60-4
	480739-61-5	480739-62-6	480739-63-7	480739-64-8	480739-65-9
	480739-66-0	480739-67-1	480739-68-2	480739-69-3	480739-70-6
	480739-71-7	480739-72-8	480739-73-9	480739-74-0	480739-75-1
	480739-76-2	480739-77-3	480739-78-4	480739-79-5	480739-80-8
	480739-81-9	480739-82-0	480739-83-1		

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)

(amino acid sequence; generation and initial anal. of more than 15,000
full-length human and mouse cDNA sequences)

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:592185 CAPLUS

DOCUMENT NUMBER: 135:177271

TITLE: Cloning, sequencing and therapeutic use of human
mitochondrial malate dehydrogenase

INVENTOR(S): Bandman, Olga; Corley, Neil C.; Shah, Purvi

PATENT ASSIGNEE(S): Incyte Genomics, Inc., USA

SOURCE: U.S., 34 pp.

DOCUMENT TYPE: CODEN: USXXAM
LANGUAGE: Patent
FAMILY ACC. NUM. COUNT: English
PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6274138	B1	20010814	US 1997-922957	19970903
US 2002086006	A1	20020704	US 2001-915694	20010725

PRIORITY APPLN. INFO.: US 1997-922957 A3 19970903
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT 354641-72-8DP, subfragments are claimed
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; cloning, sequencing and therapeutic use of human mitochondrial malate dehydrogenase)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.46	36.47

FILE 'REGISTRY' ENTERED AT 12:18:33 ON 21 MAR 2007
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STRUCTURE FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8
DICTIONARY FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8

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=> S 354641-72-8/RN

L4 1 354641-72-8/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L4 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.55 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 354641-72-8 REGISTRY
CN Dehydrogenase, malate (human Incyte clone 11587 mitochondria-associated)
(9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1: PN: US6274138 SEQID: 1 claimed protein
FS PROTEIN SEQUENCE
SQL 338

PATENT ANNOTATIONS (PNTE):

Sequence	Patent
Source	Reference
Not Given	US6274138
	claimed
	SEQID 1

SEQ 1 MLSALARPAS AALRRSFSTS AQNNAKVAVL GASGGIGQPL SLLLKNSPLV
51 SRLTLYDIAH TPGVAADLSH IETKAAVKGY LGPEQLPDCL KGCDVVVIPA
101 GVPRKPGMTR DDLFNTNATI VATLTAACAQ HCPEAMICVI ANPVNSTIPI
151 TAEVFKKHGV YNPKNIFGVT TLDIVRANTF VAELKGLDPA RVNVPVIGGH
201 AGKTIIPPLIS QCTPKVDFPQ DQLTALTGRI QEAGTEVVKA KAGAGSATLS
251 MAYAGARFVF SLVDAMNGKE GVVECSFVKS QETECTYFST PLLLGKKKGI
301 KNLGIGKVSS FEEKMISDAI PELKASIKKG EDFVKTLLK

RELATED SEQUENCES AVAILABLE WITH SEQLINK

MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
study); PREP (Preparation); PRP (Properties); USES (Uses)
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> d his

(FILE 'HOME' ENTERED AT 12:16:16 ON 21 MAR 2007)

FILE 'REGISTRY' ENTERED AT 12:16:24 ON 21 MAR 2007

L1 25 S KAKAGAGSATLSMAYAGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGI

FILE 'CAPLUS' ENTERED AT 12:16:48 ON 21 MAR 2007

L2 20 S L1

L3 2 S L2 NOT PY>2002

FILE 'REGISTRY' ENTERED AT 12:18:33 ON 21 MAR 2007

L4 1 S 354641-72-8/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

=> s l4 adn l1
MISSING OPERATOR

=> s 14 and 11
L5 1 L4 AND L1

=> d sql

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
SQL 338

=> d seq

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

SEQ 1 MLSALARPAS AALRRSFSTS AQNNAKVAVL GASGGIGQPL SLLKNSPLV
51 SRLTLYDIAH TPGVAADLSH IETKAAVKGY LGPEQLPDCL KGCDVVVIPA
101 GVPRKPGMTR DDLFNTNATI VATLTAACAQ HCPEAMICVI ANPVNSTIPI
151 TAEVFKKHGV YNPKNIFGVT TLDIVRANTF VAEKGLDPA RVNVPVIGGH
201 AGKTIIPPLIS QCTPKVDFPQ DQLTALTGRI QEAGTEVVKA KAGAGSATLS
=====

251 MAYAGARFVF SLVDAMNGKE GVVECSFVKS QETECTYFST PLLLGKKGIE
=====

301 KNLGIGKVSS FEEKMISDAI PELKASIKKG EDFVKTLK
=====

HITS AT: 239-310

RELATED SEQUENCES AVAILABLE WITH SEQLINK

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	15.27	51.74

STN INTERNATIONAL LOGOFF AT 12:22:30 ON 21 MAR 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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 NEWS 3 DEC 18 CA/CAPplus pre-1967 chemical substance index entries enhanced
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 NEWS 4 DEC 18 CA/CAPplus patent kind codes updated
 NEWS 5 DEC 18 MARPAT to CA/CAPplus accession number crossover limit increased
 to 50,000
 NEWS 6 DEC 18 MEDLINE updated in preparation for 2007 reload
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 NEWS 9 JAN 16 CA/CAPplus Company Name Thesaurus enhanced and reloaded
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 NEWS 11 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
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 NEWS X25 X.25 communication option no longer available

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:23:05 ON 21 MAR 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:23:15 ON 21 MAR 2007

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DICTIONARY FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8

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REGISTRY includes numerically searchable data for experimental and
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experimental property data in the original document. For information
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<http://www.cas.org/ONLINE/UG/regprops.html>

=> s KAKAGAGSATLSMAYAGARFVFSVLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKNLGIGKVSS/SASP
'SASP' IS NOT A VALID FIELD CODE

L1 0 KAKAGAGSATLSMAYAGARFVFSVLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKN
LGIGKVSS/SASP

=> s KAKAGAGSATLSMAYAGARFVFSVLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKNLGIGKVSS/SQsp
L2 25 KAKAGAGSATLSMAYAGARFVFSVLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIEKN
LGIGKVSS/SQSP

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

29.80

30.01

FILE 'CAPLUS' ENTERED AT 12:23:42 ON 21 MAR 2007

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FILE COVERS 1907. - 21 Mar 2007 VOL 146 ISS 13

FILE LAST UPDATED: 20 Mar 2007 (20070320/ED)

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=> s 12

L3 20 L2

=> s 13 not py>2003

4002477 PY>2003

L4 3 L3 NOT PY>2003

=> d ibib 1-3

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:942764 CAPLUS
 DOCUMENT NUMBER: 140:3792
 TITLE: Genes expressed in atherosclerotic tissue and their use in diagnosis and pharmacogenetics
 INVENTOR(S): Nevins, Joseph; West, Mike; Goldschmidt, Pascal
 PATENT ASSIGNEE(S): Duke University, USA
 SOURCE: PCT Int. Appl., 408 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003091391	A2	20031106	WO 2002-XA38221	20021112
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
WO 2003091391	A2	20031106	WO 2002-US38221	20021112
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRIORITY APPLN. INFO.:			US 2002-374547P	P 20020423
			US 2002-420784P	P 20021024
			US 2002-421043P	P 20021025
			US 2002-424680P	P 20021108
			WO 2002-US38221	A 20021112

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:18945 CAPLUS
 DOCUMENT NUMBER: 138:67676
 TITLE: Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
 AUTHOR(S): Strausberg, Robert L.; Feingold, Elise A.; Grouse, Lynette H.; Derge, Jeffery G.; Klausner, Richard D.; Collins, Francis S.; Wagner, Lukas; Shenmen, Carolyn M.; Schuler, Gregory D.; Altschul, Stephen F.; Zeeberg, Barry; Buetow, Kenneth H.; Schaefer, Carl F.; Bhat, Narayan K.; Hopkins, Ralph F.; Jordan, Heather; Moore, Troy; Max, Steve I.; Wang, Jun; Hsieh, Florence; Diatchenko, Luda; Marusina, Kate; Farmer, Andrew A.; Rubin, Gerald M.; Hong, Ling; Stapleton, Mark; Soares, M. Bento; Bonaldo, Maria F.; Casavant, Tom L.; Scheetz, Todd E.; Brownstein, Michael J.; Usdin, Ted B.; Toshiyuki, Shiraki; Carninci, Piero; Prange, Christa; Raha, Sam S.; Loquellano, Naomi A.; Peters, Garrick J.; Abramson, Rick D.; Mullahy, Sara J.; Bosak, Stephanie A.; McEwan, Paul J.; McKernan, Kevin J.; Malek, Joel A.; Gunaratne, Preethi H.; Richards, Stephen; Worley, Kim C.; Hale, Sarah; Garcia, Angela M.; Gay, Laura J.; Hulyk, Stephen W.; Villalon, Debbie K.; Muzny, Donna M.; Sodergren, Erica

J.; Lu, Xiuhua; Gibbs, Richard A.; Fahey, Jessica;
 Helton, Erin; Kettelman, Mark; Madan, Anuradha;
 Rodrigues, Stephanie; Sanchez, Amy; Whiting, Michelle;
 Madan, Anup; Young, Alice C.; Shevchenko, Yuriy;
 Bouffard, Gerard G.; Blakesley, Robert W.; Touchman,
 Jeffrey W.; Green, Eric D.; Dickson, Mark C.;
 Rodriguez, Alex C.; Grimwood, Jane; Schmutz, Jeremy;
 Myers, Richard M.; Butterfield, Yaron S. N.;
 Krzywinski, Martin I.; Skalska, Ursula; Smailus, Duane
 E.; Schnerch, Angelique; Schein, Jacqueline E.; Jones,
 Steven J. M.; Marra, Marco A.

CORPORATE SOURCE: National Cancer Institute, NIH, Bethesda, MD,
 20892-2580, USA
 SOURCE: Proceedings of the National Academy of Sciences of the
 United States of America (2002), 99(26), 16899-16903
 CODEN: PNASA6; ISSN: 0027-8424
 PUBLISHER: National Academy of Sciences
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2001:592185 CAPLUS
 DOCUMENT NUMBER: 135:177271
 TITLE: Cloning, sequencing and therapeutic use of human
 mitochondrial malate dehydrogenase
 INVENTOR(S): Bandman, Olga; Corley, Neil C.; Shah, Purvi
 PATENT ASSIGNEE(S): Incyte Genomics, Inc., USA
 SOURCE: U.S., 34 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6274138	B1	20010814	US 1997-922957	19970903
US 2002086006	A1	20020704	US 2001-915694	20010725
PRIORITY APPLN. INFO.:			US 1997-922957	A3 19970903
REFERENCE COUNT:	15	THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

=> d kwic 1

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
 IT 480917-91-7 480917-95-1 480919-09-3 480919-29-7, CAGF28 (human)
 480919-95-7, Brachyury (human gene TBX1) 480919-98-0, Cbf5p (human cell
 line HeLa gene CBF5) 480919-99-1 480920-09-0, GenBank AAB94761
 480920-38-5, GenBank AAB96655 480920-71-6, Mad4 (human gene Mad4)
 480921-77-5, Complement component C2 (human gene C2) 480922-00-7,
 GenBank AAB99730 480922-06-3 480922-10-9, BC-2 protein (human)
 480922-11-0, Cyclophilin-33B (human gene CYP-33) 480922-49-4, Mucin
 (human gene MUC3) 480924-07-0 480924-12-7 480924-20-7,
 Transcription factor LZIP (human) 480924-63-8 480924-67-2
 480924-69-4, GenBank AAC05601 480924-79-6, SSX4 (human gene SSX4)
 480924-98-9 480926-14-5 480926-28-1 480926-38-3 480926-40-7
 480926-41-8 480926-42-9 480926-43-0 480927-06-8 480927-23-9
 480928-15-2, GenBank AAC15791 480928-16-3 480929-54-2 480929-55-3
 480929-66-6, Sorting nexin 2 (human gene SNX2) 480929-83-7 480929-92-8
 480931-06-4 480931-07-5 480931-08-6 480931-09-7 480931-79-1
 480932-16-9 480932-18-1 480932-19-2 480932-69-2, GenBank AAC26109
 480933-21-9 480933-35-5 480933-36-6 480933-45-7, PLE21 protein

(human gene ple21) 480933-46-8 480933-64-0, GenBank AAC28644
 480934-15-4, Nucleoplasmin-3 (human gene NPM3) 480934-16-5,
 Lysophospholipase (human gene LPL1) 480934-44-9, Protein (human gene
 JH8) 480934-77-8, ATPase (human) 480934-93-8, GenBank AAC33132
 480935-42-0, GenBank AAC34245 480935-86-2 480935-99-7, DNA repair
 exonuclease (human gene REC1) 480936-36-5 480936-86-5, Cullin 1 (human
 cell line HeLa) 480936-95-6, Molecular chaperone DnaJ (human)
 480937-06-2, Protein (human gene NAP) 480937-27-7 480937-28-8
 480937-37-9, Phosphomevalonate kinase (human) 480937-40-4 480938-12-3
 480938-75-8, Kallistatin (human gene PI4) 480938-96-3 480938-99-6
 480939-09-1, GenBank AAC41749 480939-14-8 480940-77-0, GenBank
 AAC41930 480940-78-1, GenBank AAC41931 480940-88-3 480941-34-2
 480941-37-5 480941-39-7 480941-43-3 480941-52-4, Trio isoform
 (human) 480941-62-6 480941-63-7, P47 LBC oncogene (human clone 9a2)
 480941-65-9 480942-01-6, SLP-76 (human) 480942-04-9 480942-30-1
 480942-66-3 480942-70-9 480943-40-6 480943-41-7 480943-46-2
 480943-51-9, Protein RGP4 (human) 480943-57-5 480943-68-8
 480943-84-8 480944-02-3, Protein B (human cell line HT-1080)
 480944-09-0, Metaxin (human gene MTX) 480944-41-0, Hs-CUL-1 (human gene
 Hs-cul-1) 480944-46-5, BA46 (human) 480944-70-5 480944-71-6
 480945-09-3 480945-16-2 480945-17-3, DNA polymerase gamma (human)
 480945-22-0, STAM (human) 480945-23-1, LIM protein (human gene LPP)
 480946-18-7, FUSE binding protein 3 (human gene FBP3) 480946-29-0,
 GenBank AAC50955 480946-82-5 480947-84-0 480948-05-8, C2H2-150
 (human) 480948-26-3, Uncoupling protein 3, UCP3S (human) 480948-28-5,
 GenBank AAC51360 480948-30-9, Phosphomannomutase (human gene PMM2)
 480950-82-1, Zinc finger protein (human clone PRD51) 480951-45-9, Dead
 box, Y isoform (human gene DBY) 480951-46-0 480952-58-7 480953-12-6,
 G-protein coupled receptor RE2 (human) 480953-60-4, Protein UP50 (human
 urine) 480953-61-5, GenBank AAC62108 480953-69-3, GenBank AAC62428
 480953-76-2 480953-89-7 480954-43-6 480954-51-6 480954-63-0,
 Gamma2-adaptin (human gene G2AD) 480956-14-7, GenBank AAC70911
 480956-29-4 480956-30-7, GenBank AAC72105 480956-35-2 480958-09-6,
 Protein (human clone 559 125-amino acid) 480958-16-5, Protein (human
 clone 638 198-amino acid) 480958-17-6, GenBank AAC72956 480958-22-3,
 GenBank AAC72961 480958-31-4 480958-60-9, GenBank AAC79844
 480959-13-5 481118-85-8 481122-86-5, AML1c protein (human gene AML1)
 481122-88-7, AML1b protein (human gene AML1) 481123-11-9, VAMP5 (human)
 481123-58-4 481123-89-1 481125-18-2 481125-24-0, GenBank AAD00702
 481125-83-1, GenBank AAD01614 481126-46-9 481126-50-5, GenBank
 AAD02203 481126-60-7 481126-75-4, GenBank AAD03161 481126-84-5, AP-3
 complex sigma3A subunit (human) 481127-04-2 481128-89-6, GenBank
 AAA66020 481128-90-9 481129-26-4 481129-29-7 481129-30-0
 481129-37-7 481129-39-9 481129-47-9 481129-53-7 481129-54-8
 481129-60-6, GenBank BAA34787 481130-03-4 481131-07-1, Protein (human
 gene HRIHFB2157) 481131-19-5, Protein MD-1 (human) 481131-62-8
 481131-82-2 481132-35-8 481132-38-1 481132-48-3 481132-99-4
 481133-00-0, Fln29 (human gene fln29) 481133-01-1, GenBank BAA78640
 481133-20-4, DEPP (human gene DEPP) 481133-61-3 481133-62-4
 481133-70-4 481134-93-4 481134-94-5 481134-96-7 481135-07-3
 481135-94-8 481136-83-8 481137-03-5, GenBank BAA06626 481137-13-7
 481137-22-8 481137-23-9 481137-34-2, L-histidine decarboxylase (human)
 481137-54-6 481137-57-9 481138-12-9 481138-14-1 481138-46-9
 481138-47-0 481138-55-0 481138-69-6 481139-37-1 481139-85-9,
 GenBank BAA07508 481140-37-8 481140-39-0, GenBank AAA70417
 481140-83-4 481140-89-0, GenBank BAA05124 481140-98-1, 5'-Nucleotidase
 (human) 481140-99-2 481141-09-7 481141-11-1 481141-13-3
 481141-23-5 481141-28-0 481141-29-1 481141-52-0 481142-07-8,
 PK-120 precursor (human) 481143-01-5, Sky (human cell line HepG2 gene
 sky) 481143-06-0 481143-08-2 481143-10-6 481143-14-0 481143-35-5
 481143-50-4 481143-52-6 481143-57-1 481143-61-7 481143-87-7, Human
 rab GDI (human) 481144-86-9, Carbamyl phosphate synthetase I (human)
 481144-91-6 481144-97-2, LIMK-2 (human clone limk-2) 481145-06-6,
 Protein (human 349-amino acid) 481145-07-7 481145-28-2 481145-31-7,
 Protein (human 384-amino acid)

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)
(amino acid sequence; genes expressed in atherosclerotic tissue and
their use in diagnosis and pharmacogenetics)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	6.36	36.37

FILE 'REGISTRY' ENTERED AT 12:24:24 ON 21 MAR 2007
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DICTIONARY FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8

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on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> S 480924-12-7/RN

L5 1 480924-12-7/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L5 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.55 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 480924-12-7 REGISTRY
CN Malate dehydrogenase precursor (human gene MDH) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1934: PN: W003038130 FIGURE: 3 claimed protein
CN 2041: PN: W003091391 TABLE: 20 unclaimed protein
CN 2376: PN: W02004038376 TABLE: 5 unclaimed protein
CN 4009: PN: US20040009481 TABLE: 1 claimed protein
CN GenBank AAC03787
CN GenBank AAC03787 (Translated from: GenBank AF047470)
FS PROTEIN SEQUENCE
SQL 338

PATENT ANNOTATIONS (PNTE):

Sequence	Patent
Source	Reference
Not Given	WO2003038130
	claimed
	FIGURE 3

```

SEQ      1  MLSALARPVS AALRRSFSTS AQNNAKVAVL GASGGIGQPL SLLLKNSPLV
        51  SRLTLYDIAH TPGVAADLSH IETKAAVKGY LGPEQLPDCL KGCDVVVIPA
       101  GVPRKPGMTR DDLFNTNATI VATLTAACAQ HCPEAMICVI ANPVNSTIPI
       151  TAEVFKKHGV YNPKNIFGVT TLDIVRANTF VAEKGLDPA RVNVPVIGGH
       201  AGKTIIP LIS QCTPKVDFPQ DQLTALTGRI QEAGTEVVKA KAGAGSATLS
       251  MAYAGARFVF SLVDAMNGKE GVVECSFVKS QETECTYFST PLLLGKKGIE
       301  KNLGIGKVSS FEEKMISDAI PELKASIKKG EDFVKTLLK
    
```

RELATED SEQUENCES AVAILABLE WITH SEQLINK

```

MF  Unspecified
CI  MAN
SR  GenBank
LC  STN Files:  CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA  Caplus document type: Patent
RL.P  Roles from patents:  BIOL (Biological study); PRP (Properties)
        4 REFERENCES IN FILE CA (1907 TO DATE)
        4 REFERENCES IN FILE CAPLUS (1907 TO DATE)
    
```

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> d his

(FILE 'HOME' ENTERED AT 12:23:05 ON 21 MAR 2007)

FILE 'REGISTRY' ENTERED AT 12:23:15 ON 21 MAR 2007

```

L1      0 S KAKAGAGSATLSMAYAGARFVFSLV DAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGI
L2      25 S KAKAGAGSATLSMAYAGARFVFSLV DAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGI
    
```

FILE 'CAPLUS' ENTERED AT 12:23:42 ON 21 MAR 2007

```

L3      20 S L2
L4      3 S L3 NOT PY>2003
    
```

FILE 'REGISTRY' ENTERED AT 12:24:24 ON 21 MAR 2007

```

L5      1 S 480924-12-7/RN
        SET NOTICE 1 DISPLAY
        SET NOTICE LOGIN DISPLAY
    
```

=> s 15 and 12

```

L6      1 L5 AND L2
    
```

=> d sql seq

```

L6  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN
SQL  338
    
```

```

SEQ      1  MLSALARPVS AALRRSFSTS AQNNAKVAVL GASGGIGQPL SLLLKNSPLV
        51  SRLTLYDIAH TPGVAADLSH IETKAAVKGY LGPEQLPDCL KGCDVVVIPA
       101  GVPRKPGMTR DDLFNTNATI VATLTAACAQ HCPEAMICVI ANPVNSTIPI
       151  TAEVFKKHGV YNPKNIFGVT TLDIVRANTF VAEKGLDPA RVNVPVIGGH
       201  AGKTIIP LIS QCTPKVDFPQ DQLTALTGRI QEAGTEVVKA KAGAGSATLS
    
```

251 MAYAGARFVF SLVDAMNGKE GVVECSFVKS QETECTYFST PLLLGKKGIE
=====

301 KNLGIGKVSS FEEKMISDAI PELKASIKKG EDFVKTLK
=====

HITS AT: 239-310

RELATED SEQUENCES AVAILABLE WITH SEQLINK

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.57	48.94

STN INTERNATIONAL LOGOFF AT 12:25:02 ON 21 MAR 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	DEC 18	CA/CAPLUS pre-1967 chemical substance index entries enhanced with preparation role
NEWS 4	DEC 18	CA/CAPLUS patent kind codes updated
NEWS 5	DEC 18	MARPAT to CA/CAPLUS accession number crossover limit increased to 50,000
NEWS 6	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 7	DEC 27	CA/CAPLUS enhanced with more pre-1907 records
NEWS 8	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 9	JAN 16	CA/CAPLUS Company Name Thesaurus enhanced and reloaded
NEWS 10	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 11	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 12	JAN 22	CA/CAPLUS updated with revised CAS roles
NEWS 13	JAN 22	CA/CAPLUS enhanced with patent applications from India
NEWS 14	JAN 29	PHAR reloaded with new search and display fields
NEWS 15	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 16	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 17	FEB 15	RUSSIAPAT enhanced with pre-1994 records